

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P292239

Luminaire Tested: **22GR-LD5-32-A-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2732.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

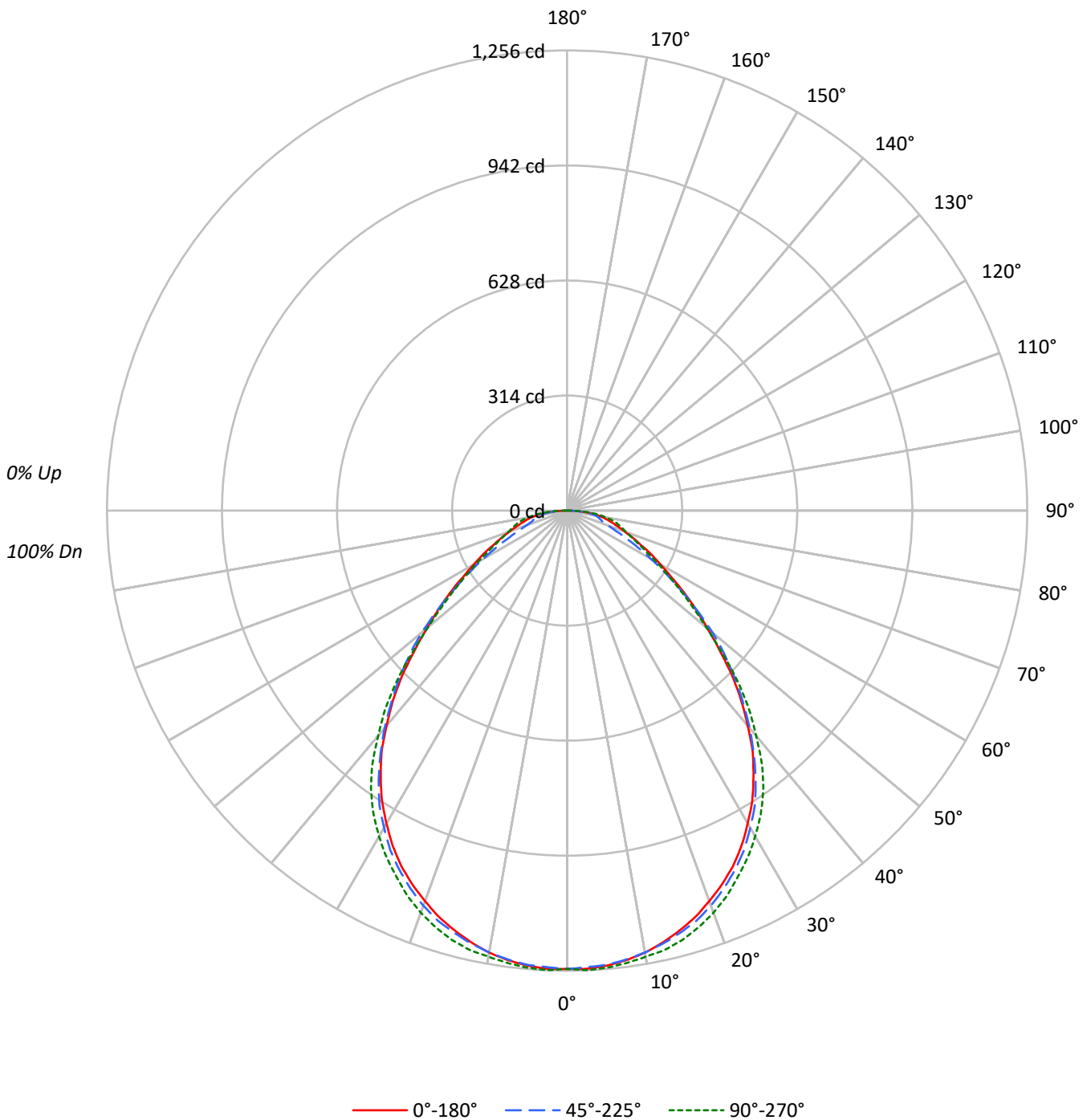
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3367	3367	3367
5°	3368	3363	3383
10°	3348	3346	3379
15°	3305	3323	3381
20°	3248	3286	3344
25°	3179	3215	3273
30°	3064	3105	3190
35°	2914	2947	3066
40°	2693	2722	2818
45°	2420	2463	2502
50°	2092	2166	2071
55°	1825	1778	1754
60°	1581	1424	1519
65°	1413	1117	1364
70°	1311	925	1345
75°	1309	978	1494
80°	1449	1232	1684
85°	1513	1334	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	4.3
10°-20°	337.2	12.3
20°-30°	498.7	18.3
30°-40°	562.8	20.6
40°-50°	496.1	18.2
50°-60°	340.3	12.5
60°-70°	200.8	7.4
70°-80°	125.3	4.6
80°-90°	52.3	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	954.3	34.9
0°-40°	1517.1	55.5
0°-60°	2353.6	86.1
0°-90°	2732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1247	1244	1245	1249	1252	118
15°	1186	1188	1193	1207	1214	334
25°	1071	1074	1083	1097	1102	492
35°	887	894	897	919	933	553
45°	636	639	647	651	657	488
55°	389	380	379	366	374	349
65°	222	195	176	203	214	224
75°	126	113	94	132	144	135
85°	49	46	43	57	62	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.2	1251.2	1251.2	1251.2	1251.2
2.5°	1251.8	1248.6	1247.3	1252.4	1255.6
5°	1246.7	1244.2	1244.8	1249.2	1252.4
7.5°	1237.8	1235.9	1235.9	1242.3	1245.4
10°	1225.1	1224.5	1224.5	1232.1	1236.5
12.5°	1207.3	1207.9	1210.5	1220.6	1228.3
15°	1186.3	1187.6	1192.7	1207.3	1213.6
17.5°	1163.4	1163.4	1173.6	1185.0	1192.7
20°	1134.2	1136.1	1147.5	1160.2	1167.9
22.5°	1104.3	1107.5	1117.0	1131.6	1138.6
25°	1070.6	1074.4	1082.7	1096.7	1102.4
27.5°	1031.2	1036.3	1045.2	1055.3	1067.4
30°	986.0	993.7	999.4	1013.4	1026.7
32.5°	940.3	947.3	953.6	968.2	983.5
35°	886.9	894.5	897.0	918.7	933.3
37.5°	832.2	835.4	836.6	858.3	874.2
40°	766.7	773.1	775.0	792.1	802.3
42.5°	703.8	706.3	710.1	722.8	734.9
45°	635.8	638.9	647.2	651.0	657.4
47.5°	564.5	574.1	583.6	571.5	572.2
50°	499.7	507.3	517.5	494.6	494.6
52.5°	441.8	445.7	446.3	427.2	431.0
55°	389.1	379.5	378.9	366.2	373.8
57.5°	336.3	323.6	319.1	315.3	324.2
60°	293.7	270.8	264.5	270.2	282.3
62.5°	258.8	229.5	217.4	232.0	242.9
65°	221.9	195.2	175.5	202.8	214.2
67.5°	193.3	167.8	142.4	181.2	189.5
70°	166.6	146.9	117.6	164.7	171.0
72.5°	145.0	129.7	101.7	148.8	156.4
75°	125.9	113.2	94.1	131.6	143.7
77.5°	110.6	96.6	87.7	113.8	128.4
80°	93.5	79.5	79.5	95.4	108.7
82.5°	73.7	62.3	64.2	77.6	87.1
85°	49.0	45.8	43.2	56.6	61.7
87.5°	24.8	25.4	22.9	29.2	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)